

Amendments to the Claims

The following listing of claims replaces all prior versions and listings of claims in the present application.

1. (Currently Amended) A cylinder apparatus comprising a cylinder body ~~{in which a}~~ having a cylinder chamber defined therein, {closed by} a cover member {is formed} that closes said cylinder chamber, a piston ~~{which is}~~ installed in said cylinder body ~~{and}~~ which is displaceable in an axial direction in said cylinder chamber, a port ~~{which is}~~ provided in said cover member for supplying and discharging a pressure fluid, and a cushion mechanism which adjusts a displacement speed around an end of displacement of said piston,

wherein said cushion mechanism ~~{includes}~~ comprises:

a bypass passage which communicates with said port and said cylinder chamber;

an adjusting member which is displaceably screwed ~~{with said cover member and/or}~~ within said cylinder ~~{body}~~ apparatus and which has an engaging projection; and

a rotatable member ~~{which has}~~ having an engaging recess, which is rotatably installed ~~{to said cover member and/or}~~ within said cylinder ~~{body}~~ apparatus, and which is prevented from displacement in a direction substantially perpendicular to an axis of said ~~{cover member and/or said}~~ cylinder body, ~~{and}~~

wherein said engaging recess of said rotatable member engages with said engaging projection of said adjusting member

when said rotatable member is rotated, said adjusting member faces said bypass passage, and a flow rate of said pressure fluid flowing through said bypass passage is adjusted when said adjusting member only is displaced in said direction substantially perpendicular to said axis of said cylinder body,
wherein said rotatable member has a columnar holding section, and a flange section which is formed under said holding section and which is expanded radially outwardly, and
wherein a stopper ring, which prevents displacement of said rotatable member, is installed in said holding section by a ring-shaped covering member.

2. (Currently Amended) The cylinder apparatus according to claim 1, wherein said rotatable member is installed in an installation hole ~~{of said cover member and/or}~~ formed in said cylinder {body} apparatus, and said rotatable member is prevented from displacement by a fastening member installed in said installation hole.

3. (Original) The cylinder apparatus according to claim 2, wherein said cover member includes a head cover which is secured to one end of said cylinder body, and a rod cover which is secured to the other end of said cylinder body.

4. (Currently Amended) The cylinder apparatus according to claim 2, wherein said installation hole includes a first hole section which is formed on an outer surface of said cylinder

~~{body}~~ apparatus, a second hole section which has a diameter reduced in a direction directed from said first hole section to said cylinder chamber, a female thread section which is formed in a direction directed from said second hole section to said cylinder chamber, and a communicating section which is formed in a direction directed from said female thread section to said cylinder chamber.

5. (Currently Amended) The cylinder apparatus according to claim 4, wherein said communicating section is provided at an intersection between a first bypass passage section, which extends substantially in parallel to an axis of a piston rod, and a second bypass passage section, which extends in a direction substantially perpendicular to said axis of said piston rod.

6. (Canceled)

7. (Canceled)

8. (Currently Amended) The cylinder apparatus according to ~~{claim 6}~~ claim 1, wherein said flange section has substantially the same diameter as an inner circumferential diameter of a first hole section of an installation hole, and a lower surface of said flange section abuts against a bottom surface of said first hole section.

9. (Original) The cylinder apparatus according to claim 1, wherein a clearance is always formed in a displacement direction of said adjusting member between said engaging recess and said engaging projection.

10. (Original) The cylinder apparatus according to claim 1, wherein said adjusting member comprises a needle, and said needle includes said engaging projection which is formed at an upper portion, a guide section which is formed under said engaging projection, a screw section which is formed under said guide section, and a tapered section which is formed under said screw section and which faces said bypass passage.

11. (Currently Amended) The cylinder apparatus according to ~~claim 7~~ claim 1, wherein said covering member is formed of an elastic material, and a ring member of a metal material is provided in said covering member.

12. (New) A cylinder apparatus comprising a cylinder body having a cylinder chamber defined therein, a cover member that closes said cylinder chamber, a piston installed in said cylinder body which is displaceable in an axial direction in said cylinder chamber, a port provided in said cover member for supplying and discharging a pressure fluid, and a cushion mechanism which adjusts a displacement speed around an end of displacement of said piston,

wherein said cushion mechanism comprises:

a bypass passage which communicates with said port and said cylinder chamber;

an adjusting member which is displaceably screwed within said cylinder apparatus and which has an engaging projection; and

a rotatable member having an engaging recess, which is rotatably installed within said cylinder apparatus, and which is prevented from displacement in a direction substantially perpendicular to an axis of said cylinder body,

wherein said engaging recess of said rotatable member engages with said engaging projection of said adjusting member when said rotatable member is rotated, said adjusting member faces said bypass passage, and a flow rate of said pressure fluid flowing through said bypass passage is adjusted when said adjusting member only is displaced in said direction substantially perpendicular to said axis of said cylinder body,

wherein said rotatable member has a columnar holding section, and a flange section which is formed under said holding section and which is expanded radially outwardly, and

wherein said flange section has substantially the same diameter as an inner circumferential diameter of a first hole section of an installation hole, and a lower surface of said flange section abuts against a bottom surface of said first hole section.

13. (New) The cylinder apparatus according to claim 12, wherein said rotatable member is installed in an installation hole formed in said cylinder apparatus, and said rotatable member

is prevented from displacement by a fastening member installed in said installation hole.

14. (New) The cylinder apparatus according to claim 13, wherein said cover member includes a head cover which is secured to one end of said cylinder body, and a rod cover which is secured to the other end of said cylinder body.

15. (New) The cylinder apparatus according to claim 13, wherein said installation hole includes a first hole section which is formed on an outer surface of said cylinder apparatus, a second hole section which has a diameter reduced in a direction directed from said first hole section to said cylinder chamber, a female thread section which is formed in a direction directed from said second hole section to said cylinder chamber, and a communicating section which is formed in a direction directed from said female thread section to said cylinder chamber.

16. (New) The cylinder apparatus according to claim 15, wherein said communicating section is provided at an intersection between a first bypass passage section, which extends substantially in parallel to an axis of a piston rod, and a second bypass passage section, which extends in a direction substantially perpendicular to said axis of said piston rod.

17. (New) The cylinder apparatus according to claim 12, wherein a stopper ring, which prevents displacement of said

rotatable member, is installed in said holding section by a ring-shaped covering member.

18. (New) The cylinder apparatus according to claim 12, wherein a clearance is always formed in a displacement direction of said adjusting member between said engaging recess and said engaging projection.

19. (New) The cylinder apparatus according to claim 12, wherein said adjusting member comprises a needle, and said needle includes said engaging projection which is formed at an upper portion, a guide section which is formed under said engaging projection, a screw section which is formed under said guide section, and a tapered section which is formed under said screw section and which faces said bypass passage.

20. (New) The cylinder apparatus according to claim 17, wherein said covering member is formed of an elastic material, and a ring member of a metal material is provided in said covering member.